

0107

Note: Input Power, Pm may exceed thermal limit,
Check thermal power page 108

- Pm* - Input Power (HP)
- M2* - Output Torque (lb.in)
- i* - Exact Ratio (:1)
- N2* - Output Speed (rpm)
- fra* - Overhung Load (lbf)

SINGLEREDUCTION

Column Entry	Input Speed N1 (rpm)	M0512					M0612					M0712					M0812				
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
1 . 2	3500	2815		312	14.2	356	2788		631	28.3	660	2775		946	42.3	792	2789		1450	65.4	1060
	1750	1407	1.243	395	8.92	434	1394	1.255	798	17.8	807	1387	1.261	949	21.2	1080	1394	1.255	1470	32.9	1290
	1160	933		453	6.78	487	924		825	12.2	899	919		950	14	1260	924		1470	21.8	1510
	875	703		457	5.15	530	697		826	9.22	900	693		951	10.6	1200	697		1470	16.4	1600
1 . 4	3500	2479		326	13	370	2483		665	26.6	700	2524		1040	42.3	840	2507		1530	61.7	1100
	1750	1239	1.412	412	8.2	454	1241	1.409	827	16.5	848	1262	1.386	1040	21.2	1100	1253	1.396	1630	32.9	1310
	1160	821		457	6.02	519	823		828	10.9	899	836		1050	14	1290	831		1630	21.8	1540
	875	619		457	4.54	550	620		828	8.23	900	631		1050	10.6	1400	626		1640	16.4	1640
1 . 8	3500	1951		355	11.1	395	1955		735	23.1	795	1932		1160	36.2	960	1939		1700	53.1	1230
	1750	975	1.793	448	7.02	495	977	1.789	928	14.6	899	966	1.811	1360	21.2	1140	969	1.805	2110	32.9	1360
	1160	646		457	4.74	557	648		933	9.69	899	640		1370	14	1350	642		2110	21.8	1600
	875	487		457	3.57	620	488		933	7.3	900	483		1370	10.6	1420	484		2120	16.4	1660
2 . 0	3500	1718		377	10.4	420	1725		770	21.4	840	1699		1220	33.4	1020	1727		1770	49.4	1290
	1750	859	2.037	457	6.3	530	862	2.029	953	13.2	899	849	2.059	1540	21	1160	863	2.026	2240	31.1	1400
	1160	569		457	4.17	582	571		953	8.73	899	563		1550	14	1360	572		2370	21.8	1630
	875	429		457	3.15	640	431		953	6.58	900	424		1550	10.6	1420	431		2370	16.4	1660
2 . 5	3500	1400		414	9.33	445	1446		816	19	840	1400		1320	29.7	1020	1408		1900	43.1	1290
	1750	700	2.5	457	5.14	577	723	2.419	977	11.3	899	700	2.5	1640	18.4	1260	704	2.485	2400	27.2	1510
	1160	464		457	3.4	623	479		977	7.51	899	464		1640	12.2	1400	466		2760	20.6	1640
	875	350		457	2.57	700	361		977	5.66	900	350		1640	9.22	1440	352		2910	16.4	1800
2 . 8	3500	1262		421	8.55	515	1256		851	17.2	855	1272		1360	27.8	1160	1250		1950	39.3	1360
	1750	631	2.773	457	4.63	587	628	2.786	853	8.6	899	636	2.75	1710	17.4	1300	625	2.8	2460	24.7	1570
	1160	418		457	3.07	639	416		854	5.7	899	421		1710	11.6	1420	414		2830	18.8	1660
	875	315		457	2.31	700	314		854	4.3	899	318		1710	8.72	1420	312		3110	15.6	1800
3 . 2	3500	1111		436	7.79	550	1080		887	15.4	870	1107		1390	24.8	1115	1073		2050	35.5	1310
	1750	555	3.15	457	4.08	605	540	3.24	964	8.36	899	553	3.16	1760	15.6	1340	536	3.259	2590	22.4	1660
	1160	368		457	2.7	664	358		964	5.54	899	367		1850	10.9	1420	355		2980	17	1700
	875	277		457	2.04	664	270		965	4.18	899	276		1850	8.23	1420	268		3270	14.1	1800
3 . 6	3500	977		433	6.83	570	965		916	14.2	885	976		1460	23	1210	968		2110	32.9	1330
	1750	488	3.579	434	3.42	652	482	3.625	1010	7.86	899	488	3.583	1850	14.5	1410	484	3.615	2660	20.7	1750
	1160	324		434	2.26	697	320		1010	5.21	899	323		1940	10.1	1440	320		2780	14.3	1800
	875	244		434	1.71	697	241		1010	3.93	899	244		1940	7.62	1440	242		2780	10.8	1800
4 . 0	3500	888		433	6.19	590	905		934	13.6	899	885		1470	21	1210	884		2130	30.3	1360
	1750	444	3.941	433	3.1	653	452	3.864	1050	7.61	899	442	3.952	1860	13.2	1380	442	3.957	2660	18.9	1710
	1160	294		433	2.05	697	300		1050	5.04	899	293		1940	9.15	1440	293		2660	12.5	1800
	875	222		434	1.55	697	226		1050	3.8	899	221		1940	6.9	1440	221		2670	9.46	1800
4 . 5	3500	772		454	5.65	600	764		957	11.8	899	773		1530	19	1270	781		2200	27.8	1450
	1750	386	4.533	454	2.83	666	382	4.579	1040	6.41	899	386	4.526	1930	12	1420	390	4.476	2780	17.5	1740
	1160	255		455	1.87	697	253		1040	4.25	899	256		1940	8	1440	259		2860	11.9	1800
	875	193		455	1.41	697	191		1040	3.2	899	193		1940	6.03	1440	195		2860	8.97	1800
5 . 0	3500	710		429	4.92	615	715		969	11.2	899	683		1550	17	1330	692		2250	25.2	1520
	1750	355	4.929	429	2.46	692	357	4.889	1050	6.02	899	341	5.118	1940	10.7	1440	346	5.053	2850	15.9	1770
	1160	235		430	1.63	697	237		1050	3.99	899	226		1940	7.08	1440	229		3000	11.1	1800
	875	177		430	1.23	697	178		1050	3.01	899	170		1940	5.34	1440	173		3000	8.36	1520
6 . 0	3500	591		452	4.33	620	576		1000	9.34	899	589		1580	15.1	1370	571		2300	21.2	1620
	1750	295	5.917	453	2.16	697	288	6.067	1050	4.86	899	294	5.933	1940	9.22	1440	285	6.125	2910	13.4	1800
	1160	196		453	1.43	697	191		1050	3.22	899	195		1940	6.11	1440	189		3260	9.94	1800
	875	147		453	1.08	697	144		1050	2.43	899	147		1940	4.61	1370	142		3260	7.5	1800
7 . 1	3500	492		457	3.65	635	489		1030	8.11	899	494		1640	13.1	1440	490		2350	18.6	1710
	1750	246	7.1	457	1.82	697	244	7.154	1050	4.12	899	247	7.077	1940	7.74	1440	245	7.143	2970	11.7	1800
	1160	163		457	1.21	697	162		1050	2.73	899	163		1940	5.13	1440	162		3410	8.92	1800
	875	123		457	0.91	697	122		1050	2.06	899	123		1940	3.87	1440	122		3440	6.79	1800
8 . 0	3500	437		457	3.24	650	446		1040	7.49	899	451		1660	12.1	1440	446		2400	17.3	1800
	1750	218	8	457	1.62	697	223	7.833	1050	3.77	899	225	7.75	1940	7.08	1440	223	7.846	3030	10.9	1800
	1160	145		457	1.07	697	148		1050	2.5	899	149		1940	4.69	1440	147		3440	8.2	1800
	875	109		457	0.809	697	111		1050	1.88	899	112		1940	3.54	1440	111		3440	6.18	1800